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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/828,149	04/09/2001	Reidar Wasenius	017.39605X00	6546	
20457	20457 7590 09/23/2005			EXAMINER	
	I, TERRY, STOUT &	DEAN, RAYMOND S			
SUITE 1800	SEVENTEENTH STR	EE I	ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22209-3873			2684		
			DATE MAILED: 09/23/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/828,149	WASENIUS, REIDAR				
Office Action Summary	Examiner	Art Unit				
	Raymond S. Dean	2684				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tiruly apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>08 Ju</u>	dv 2005					
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	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, pance quajie, 1000 0121 11, 1					
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4) Claim(s) 19 - 50 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)  Claim(s) <u>19 - 23, 25 - 32, and 34 - 50</u> is/are rejected.						
7)⊠ Claim(s) <u>24 and 33</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>09 April 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
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Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate Patent Application (PTO-152)				

### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments with respect to claim 19, 27, and 29 have been considered but are most in view of the new ground(s) of rejection.

A further search of Haartsen reveals that after formation of a group (Piconet), the plurality of wireless Bluetooth terminals are recognized by an identification thereof as being members of said group (See Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph). A piconet will not be formed unless the identification of the terminals is determined thus after said piconet is formed said terminals will be recognized by said identification as being members of said piconet.

Newly found prior art Lunsford et al. (US 6,901,434) teaches a piconet that is formed by users of handheld Bluetooth terminals. The users decide to form said piconet (See Column 2 lines 45 – 59, Column 3 lines 17 – 49). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Beck in view of Haartsen with the decision method of Lunsford for the purpose of enabling the users of handheld Bluetooth terminals to request and retrieve desired information that other users of other handheld Bluetooth terminals possess as taught by Lunsford.

Application/Control Number: 09/828,149 Page 3

Art Unit: 2684

# Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 19 – 23, 25 – 32, and 34 – 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beck et al. (US 6,604,140) in view of Haartsen et al. (Proceedings of IEEE, Volume 88, Issue 10, Oct 2000, Pages 1651 – 1661) and if further view of Lunsford et al. (US 6,901,434).

Regarding Claim 19, Beck teaches a wireless communication system, comprising: a plurality of wireless terminals, the terminals being in wireless communication with each other including providing sharing of functions between the terminals (Figure 1, Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality), individual wireless terminals performing at least one function in addition to performing wireless communication with each other, which is common to the individual terminals (Figure 1, Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines

61 – 63, the mobile devices can perform the function of advertising services and using services), and performing at least one function which is not common to individual wireless terminals (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, this means that said service advertisers possess additional functionalities that said service users do not possess); and the wireless terminals sharing the at least one function which is not common to each of the wireless terminals so that a total number of functions available to be performed by the individual wireless terminals, in addition to performing the wireless communication with each other, is greater than a total number of functions available to be performed by the individual wireless terminals when the individual wireless terminals are not in communication with one another (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality); and wherein sharing of the at least one function which is not common to the wireless terminals may occur between the wireless terminals (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have

Art Unit: 2684

said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality).

Beck does not teach a plurality of wireless terminals formed into a predefined group in which users of the plurality of wireless terminals decide to form the group and after formation of the group the plurality of wireless terminals are recognized by an identification thereof as being members of the group and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a recognized identification and upon confirmation by the wireless terminals that the wireless terminals have the recognized identification, a group session is initiated with the predefined group.

Haartsen teaches a plurality of wireless terminals into a predefined group (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8, the Bluetooth devices can move into the neighborhood of preexisting or predefined piconets thus a Bluetooth system has predefined groups) and after formation of the group, the plurality of wireless terminals are recognized by an identification thereof as being members of the group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, a piconet will not be formed unless the identification of the terminals is determined thus after said piconet is formed said terminals will be recognized by said identification as being members of said piconet) and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a recognized identification (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, Section B (Piconets), 1<sup>st</sup> Paragraph lines 6 – 10, any of the slaves can become masters thereby enabling said slaves to determine if the other

Art Unit: 2684

terminals in the predefined group has a recognized identification) and upon confirmation by the wireless terminals that the wireless terminals have the recognized identification, a group session is initiated with the predefined group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, when the wireless terminals have responded with the identification information said wireless units can be paged and a piconet can be formed thereby enabling a group session to be established).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the predefined group and group communication method taught by Haartsen in the ad hoc network of Beck as the ad hoc network of Beck uses a Bluetooth protocol and for the purpose of enabling each mobile device to autonomously identify other mobile devices so as to build up a flexible communication network as taught by Haartsen.

Beck in view of Haartsen does not teach a predefined group in which users of the plurality of wireless terminals decide to form the group.

Lunsford teaches users of the plurality of wireless terminals deciding to form a group (Column 2 lines 45 – 59, Column 3 lines 17 – 49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Beck in view of Haartsen with the decision method of Lunsford for the purpose of enabling the users of handheld Bluetooth terminals to request and retrieve desired information that other users of other handheld Bluetooth terminals possess as taught by Lunsford.

Art Unit: 2684

Regarding Claim 20, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches wherein the wireless communication is by a low power radio frequency link (Column 3 lines 52 – 53, a Bluetooth network comprises low power radio frequency links).

Regarding Claim 21, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches wherein one of the at least one additional function of the group of wireless terminals is a software application (Column 5 lines 38 – 64, the additional services are software applications).

Regarding Claim 22, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Haartsen further teaches wherein the group includes a minimum of two and a maximum of seven terminals (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8, a typical piconet can include a minimum of two and a maximum of seven terminals).

Regarding Claim 23, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Haartsen further teaches wherein the group is established by one wireless terminal of the plurality of wireless terminals becoming a master, which scans by wireless communication to locate other of the plurality of wireless terminals to join the group as slaves (Page 1655, Section B (Piconets) 1<sup>st</sup> Paragraph lines 1 – 8).

Regarding Claim 25, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches wherein

Art Unit: 2684

at least one additional function becomes available only when there is a minimum number of the plurality of wireless terminals (Column 4 lines 6 – 9, Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality, the number of mobile devices can be any number thus there can be a minimum number of said mobile devices).

Regarding Claim 26, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches wherein at least one additional function becomes available and is available for a single terminal of the group after having been a member of the group (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services after having communicated with said service advertisers thus expanding their functionality).

Regarding Claim 27, Beck teaches in a wireless communication system including a plurality of wireless terminals in wireless communication with each other including providing sharing of functions between the wireless terminals (Figure 1, Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines 63 – 67,

Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality), at least one function, in addition to performing the wireless communication with other wireless terminals, wherein the at least one function is commonly performed by individual wireless terminals (Figure 1. Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines 61 – 63, the mobile devices can perform the function of advertising services and using services); and at least one additional function, which is not common to the individual wireless terminals and is shared while individual wireless terminals are in communication with one another so that the individual wireless terminals have availability to perform a greater number of functions, in addition to performing wireless communication, than the individual wireless terminals have while not in communication with one another (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality); and wherein sharing of the at least one function which is not common to the wireless terminals may occur between the wireless terminals (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users)

Art Unit: 2684

can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality).

Beck does not teach a predefined group of wireless terminals in which users of the plurality of wireless terminals decide to form the group and after formation of the group the plurality of wireless terminals are recognized by an identification thereof as being members of the group, a wireless terminal comprising: a transmitter; a receiver; a communication device for handling transmitted and received wireless messages respectively transmitted by the transmitter and received by the receiver, and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a recognized identification in the wireless communication system and upon confirmation received by the wireless communication system from the wireless terminals that the wireless terminals have the recognized identification, the wireless communication system initiates a group session with the predefined group.

Haartsen teaches a predefined group of wireless terminals (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8, the Bluetooth devices can move into the neighborhood of preexisting or predefined piconets thus a Bluetooth system has predefined groups), and after formation of the group, the plurality of wireless terminals are recognized by an identification thereof as being members of the group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, a piconet will not be formed unless the identification of the terminals is determined thus after said piconet is formed said

terminals will be recognized by said identification as being members of said piconet), a wireless terminal comprising: a transmitter; a receiver; a communication device for handling transmitted and received wireless messages respectively transmitted by the transmitter and received by the receiver (Section II (Bluetooth Air Interface), 4th Bullet). and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a recognized identification in the wireless communication system (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, Section B (Piconets), 1st Paragraph lines 6 – 10, any of the slaves can become masters thereby enabling said slaves to determine if the other terminals in the predefined group has a recognized identification) and upon confirmation received by the wireless communication system from the wireless terminals that the wireless terminals have the recognized identification, the wireless communication system initiates a group session with the predefined group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, when the wireless terminals have responded with the identification information said wireless units can be paged and a piconet can be formed thereby enabling a group session to be established).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the predefined group, wireless terminal, and group communication method taught by Haartsen in the ad hoc network of Beck as the ad hoc network of Beck uses a Bluetooth protocol and for the purposes of enabling each mobile device to autonomously identify other mobile devices so as to build up a flexible

Art Unit: 2684

communication network and enabling the mobile devices to communicate bidirectionally as taught by Haartsen.

Beck in view of Haartsen does not teach a predefined group in which users of the plurality of wireless terminals decide to form the group.

Lunsford teaches users of the plurality of wireless terminals deciding to form a group (Column 2 lines 45 – 59, Column 3 lines 17 – 49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Beck in view of Haartsen with the decision method of Lunsford for the purpose of enabling the users of handheld Bluetooth terminals to request and retrieve desired information that other users of other handheld Bluetooth terminals possess as taught by Lunsford.

Regarding Claim 28, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 27. Beck further teaches wherein at least one function is a software application (Column 5 lines 38 – 64, the additional services are software applications).

Regarding Claim 29, Beck teaches a plurality of wireless terminals which wirelessly communicate with each other including providing sharing of functions between the wireless terminals (Figure 1, Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will

therefore have access to a greater number of services thus expanding their functionality); individual wireless terminals performing at least one function while in communication with one another, in addition to performing wireless communication. wherein the at least one function is common to all wireless terminals (Figure 1, Column 3 lines 41 – 43, Column 3 lines 52 – 53, Column 4 lines 6 – 13, Column 4 lines 61 – 63, the mobile devices can perform the function of advertising services and using services); and at least one of the individual wireless terminals performing at least one additional function, which is not a function common to the individual wireless terminals and is shared with the individual wireless terminals (Column 4 lines 63 – 67, Column 5 lines 1 - 22, Column 5 lines 38 - 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, this means that said service advertisers possess additional functionalities that said service users do not possess, said service users will therefore have access to a greater number of services thus expanding their functionality); and wherein sharing of the at least one function which is not common to the wireless terminals may occur between the wireless terminals (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services thus expanding their functionality).

Art Unit: 2684

Beck does not teach a plurality of wireless terminals forming a predefined group in which users of the plurality of wireless terminals decide to form the group and after formation of the group the plurality of wireless terminals are recognized by an identification thereof as being members of the group, one of the wireless terminals of the group being a master terminal which controls interactions between the plurality of wireless terminals of the group, and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a recognized identification in the wireless communication system and upon confirmation that the wireless terminals have the recognized identification, the wireless communication system initiates a group session with the predefined group.

Haartsen teaches a plurality of wireless terminals forming a predefined group (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8, the Bluetooth devices can move into the neighborhood of preexisting or predefined piconets thus a Bluetooth system has predefined groups) and after formation of the group, the plurality of wireless terminals are recognized by an identification thereof as being members of the group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, a piconet will not be formed unless the identification of the terminals is determined thus after said piconet is formed said terminals will be recognized by said identification as being members of said piconet), one of the wireless terminals of the group being a master terminal which controls interactions between the plurality of wireless terminals of the group (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8), and the wireless terminals determine if each of the wireless terminals belonging to the predefined group has a

recognized identification in the wireless communication system (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, Section B (Piconets), 1<sup>st</sup> Paragraph lines 6 – 10, any of the slaves can become masters thereby enabling said slaves to determine if the other terminals in the predefined group has a recognized identification) and upon confirmation that the wireless terminals have the recognized identification, the wireless communication system initiates a group session with the predefined group (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, when the wireless terminals have responded with the identification information said wireless units can be paged and a piconet can be formed thereby enabling a group session to be established).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the predefined group and group communication method taught by Haartsen in the ad hoc network of Beck as the ad hoc network of Beck uses a Bluetooth protocol and for the purpose of enabling each mobile device to autonomously identify other mobile devices so as to build up a flexible communication network as taught by Haartsen.

Beck in view of Haartsen does not teach a predefined group in which users of the plurality of wireless terminals decide to form the group.

Lunsford teaches users of the plurality of wireless terminals deciding to form a group (Column 2 lines 45 – 59, Column 3 lines 17 – 49).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Beck in view of Haartsen with the decision method of Lunsford for the purpose of enabling the users of handheld Bluetooth

Art Unit: 2684

terminals to request and retrieve desired information that other users of other handheld Bluetooth terminals possess as taught by Lunsford.

Regarding Claim 30, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Beck further teaches wherein the wireless communication link is a low power radio frequency (Column 3 lines 52 – 53, a Bluetooth network comprises low power radio frequency links).

Regarding Claim 31, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 30. Beck further teaches wherein the additional function is a software application (Column 5 lines 38 – 64, the additional services are software applications).

Regarding Claim 32, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Haartsen further teaches wherein the group includes a minimum of two and a maximum of seven wireless terminals (Page 1655, Section B (Piconets), 1<sup>st</sup> Paragraph lines 1 – 8, a typical piconet can include a minimum of two and a maximum of seven terminals).

Regarding Claim 34, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Beck further teaches wherein at least one additional function becomes available only when there is a minimum number of terminals (Column 4 lines 6 – 9, Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 64, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said

service users will therefore have access to a greater number of services thus expanding their functionality, the number of mobile devices can be any number thus there can be a minimum number of said mobile devices).

Regarding Claim 35, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Beck further teaches wherein at least one additional function becomes available and is available for a single terminal of the group after having been a member of the group (Column 4 lines 63 – 67, Column 5 lines 1 – 22, Column 5 lines 38 – 60, the mobile devices (service users) can access other needed services, that said service users do not possess, by communicating with other mobile devices (service advertisers) that have said services via an ad hoc network, said service users will therefore have access to a greater number of services after having communicated with said service advertisers thus expanding their functionality).

Regarding Claim 36, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Haartsen further teaches information is exchanged in the group which is used by the group to determine if an individual wireless terminal belongs in the group of wireless terminals (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, the mobile terminals must respond to the inquiry message with a Frequency Hop Synchronization (FHS) packet which includes the Bluetooth Address (BD\_ADDR) and a clock, if said mobile terminals do not respond to the inquiry message with said FHS packet said mobile terminals do not belong to the group).

Regarding Claim 37, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Haartsen further teaches wherein the group has rules, which control use of information by the group (Page 1655, Section A (Establishing Connections), 3rd Paragraph, the paging procedure has rules that the paging unit and recipient must follow in order to establish a piconet so that information can be exchanged).

Regarding Claim 38, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 27. Haartsen further teaches information is exchanged in the group which is used by the group to determine if an individual wireless terminal belongs in the group of wireless terminals (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, the mobile terminals must respond to the inquiry message with a Frequency Hop Synchronization (FHS) packet which includes the Bluetooth Address (BD\_ADDR) and a clock, if said mobile terminals do not respond to the inquiry message with said FHS packet said mobile terminals do not belong to the group).

Regarding Claim 39, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 27. Haartsen further teaches wherein the group has rules, which control use of information by the group (Page 1655, Section A (Establishing Connections), 3rd Paragraph, the paging procedure has rules that the paging unit and recipient must follow in order to establish a piconet so that information can be exchanged).

Regarding Claim 40, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Haartsen further teaches information is exchanged in the group which is used by the group to determine if an individual wireless terminal belongs in the group of wireless terminals (Page 1655, Section A (Establishing Connections), 4<sup>th</sup> Paragraph, the mobile terminals must respond to the inquiry message with a Frequency Hop Synchronization (FHS) packet which includes the Bluetooth Address (BD\_ADDR) and a clock, if said mobile terminals do not respond to the inquiry message with said FHS packet said mobile terminals do not belong to the group).

Regarding Claim 41, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Haartsen further teaches wherein the group has rules, which control use of information by the group (Page 1655, Section A (Establishing Connections), 3rd Paragraph, the paging procedure has rules that the paging unit and recipient must follow in order to establish a piconet so that information can be exchanged).

Regarding Claim 42, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches the wireless terminals use the at least one common function and the al least one function which is not common to interact to perform a common application (Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software, which performs the function of using services, will interact with or use the new service, which is an uncommon function, the use of said new service is the common application).

Regarding Claim 43, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 27. Beck further teaches the wireless terminals use the at least one common function and the al least one function which is not common to interact to perform a common application (Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software, which performs the function of using services, will interact with or use the new service, which is an uncommon function, the use of said new service is the common application).

Regarding Claim 44, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Beck further teaches the wireless terminals use the at least one common function and the all least one function which is not common to interact to perform a common application (Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software, which performs the function of using services, will interact with or use the new service, which is an uncommon function, the use of said new service is the common application).

Regarding Claim 45, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 19. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

Regarding Claim 46, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 27. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

Regarding Claim 47, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 29. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

Regarding Claim 48, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 42. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other

Art Unit: 2684

mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

Page 22

Regarding Claim 49, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 43. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

Regarding Claim 50, Beck in view of Haartsen and in further view of Lunsford teaches all of the claimed limitations recited in Claim 44. Beck further teaches the at least one common function and the at least one function which is not common are a set of functions which are shared while in the group (Column 4 lines 61 – 63, Column 5 lines 38 – 67, Column 6 lines 1 – 2, Column 6 lines 29 – 40, the client software of the requesting mobile devices (service users) will interact with the new services of other mobile devices (service advertisers) thus said client software and said new services will be shared amongst said mobile devices).

### Allowable Subject Matter

4. Claims 24 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or show wherein at least one wireless terminal of the group may be removed from the group by a remainder of wireless terminals of the group.

#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2684

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond S. Dean whose telephone number is 571-272-7877. The examiner can normally be reached on 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond S. Dean September 16, 2005

SUPERVISORY PATENT EXAMINER

Page 24